SOBOLEV, L.G., kand.tekhn.nauk

Stability of single stage automatic control systems composed of aperiodic circuits. Trudy TSNIIMF no.38:70-90 '61. (MIRA 15:9)

(Automatic control)

SOBOLEV, L.G. (Leningrad)

Selection of parameter relations of two types of single-loop third order automatic control systems with an additional pulse at the derivative. Avt. i telem. 22 no.1:107-110 Ja '61. (MIRA 14:3)

(Automatic control)

SOBOLEV, L.G. (Leningrad)

Concerning the properties of single-circuit automatic control systems. Avtom i telem 22 no.4:530-535 Ap '61. (MIRA 14:4)
(Automatic control)

SOBOLEV, L.G., inzh.

Selection of parameter correlations for control systems composed of three aperiodic links. Sudostroenie 27 no.6:36-38 Je '61. (MIRA 14:6)

(Marine engines)
(Automatic control)

SYROMYATNIKOV, V.F., kand.tekhn.nauk; SOBOLEV, L.G.

Results of testing the automatically controlled units of the engine and boiler room on the steamer "Leninskii Komsomol." Inform. sbor. TSNIIMF no.64. Tekh. ekspl. mor. flota no.9:3-26 '61. (MIRA 16:6)
(Boilers, Marine) (Marine engines) (Automatic control)

SOBOLEV, L.G., kand.tekhn.nauk

Testing ventilating arrangements of the engine and boiler room on the steamship "Leninskii Komsomol." Trudy TSNIIMF 8 no.42: 44-47 '62. (MIRA 16:1)

(Steamboats—Heating and ventilation)

SOKOLEV, L.G., kand.tekhn.nauk

Structural diagrams of regulation systems of fuel combustion in marine steam boilers. Trudy TSNIIMF 8 no.44:15-27 '62. (MIRA 16:1)

(Boilers, Marine—Fuel systems)
(Governors (Machinery))

SOBOLEV, L.G., kand.tekhn.nauk

Initial quick operation of single circuit control systems. (MIRA 16:1)
Trudy TSNIIMF 8 no.44:46-49 '62.
(Automatic control)

SOBOLEV, L.G., kand.tekhn.nauk

Dynamics of limiting control systems. Trudy TSNIIMF 8 no.44:68-71 '62. (MIRA 16:1)
(Automatic control) (Transients (Dynamics))

KRATINOV, Ye., vtoroy shturman; SOBOLEV, L., starshiy nauchnyy sotrudnik

Ventilation system and air drying in the holds of the steamer "Leninskii Komsomol." Mor.flot 22 no.1:26-29 Ja '62. (MIRA 15:1)

1. Parokhod "Leninskiy komsomol" (for Kratinov). 2. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota (for Sobolev).
(Ships--Air conditioning)

SYROMYATNIKOV, V., kand.tekhn.nauk; SOBOLEV, L., starshiy nauchnyy sotrudnik

Operational testing of the automatic control system for the power plant of the "Leninskii Komsomol" steamer. Mor. flot 22 no.3:22-26 Mr '62. (MIRA 15:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota.

(Boilers, Marine)
(Automatic control)

S/103/62/023/002/014/015
D230/D301

21.2196

AUTHOR: Sopolev L.G. (Leningrad)

TITLE: On estimating the critical amplification coefficient of single-loop automatic systems consisting of aperiodic stages

PERIODICAL: Avtomatika i telemekhanika, v 23, no. 2, 1962, 242 - 245

TEXT: The value of the critical amplification coefficient K_{cr} of an open single-loop automatic system consisting of n+1 aperiodic stages is fully defined by n parameters of T_i as follows:

$$K_{cr} = (1 + z)^{\frac{1}{2}} \prod_{i=1}^{n} (1 + zT_i^2)^{\frac{1}{2}},$$

where T_i - ratio of time constants of i-th stage to the largest time constant which is normally that of the controlled object, $z = \omega_{cr}^2$

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On determining the critical ...

where ω_{cr} critical frequency. Introducing further relations $T = \frac{T_2}{T_1}$, T_1 and $Z = (1 + T_1 + T)/T_1T$ an approximate formula for K_{cr} is obtained. $K_{cr} = [(1 + T)/T][(1 + T)(T + T_1)/T_1]^{1/2}$. This formula permits rapid evaluation of K_{cr} for automatic systems of the type above and for a large number of stages, the time constant of the initial stages being considerably larger than those of the latter stages. There are 2 Soviet-bloc references.

SUBMITTED: April 10, 1961

Card 2/2

SOBOLEV, L.G., kand.tekhn.nauk

Dynamics of certain classes of linear automatic control systems. (MIRA 16:6)
Trudy TSNIIMF no.46:79-101 '62.
(Ships--Equipment and supplies) (Automatic control)

SOBOLEV, L.G., kand.tekhn.nauk

Character of stability region changes in the performance of control systems with the additional connection of an inertial device. Trudy TSNIIMF 8 no.5:38-39 '63. (MIRA 17:3)

SOBOLEV, L.G., kand. tekhn. nauk

Errors in determining the time of start and acceleration of marine engines. Sudostroenie 29 no.8:43-45 Ag '63. (MIRA 16:10)

(Marine engineering) (Automatic control)

SOBOLEV, L.G., kand.tekhn.nauk

Utilizing a supplementary impetus at an intermediate point for pressure regulation systems. Sudostroenie 30 no.1:24-26 Ja '64. (MIRA 17:3)

[illegible], [illegible], kand. tekhn. nauk; [illegible], L.G., kand. tekhn. nauk; YUNG, V.N., kand. tekhn. nauk

[illegible] characteristics of marine power plants. Sudostroenie 30 no.9:[illegible] S '64. (MIRA 17:11)

SOBOLEV, Leonid Georgiyevich; PECHENENKO, V.I., kand.tekhn.nauk, dots., retsenzent; MARTYANOVA, I.Ya., red.
[Automatic regulation of fuel combustion in marine boilers] Avtomaticheskoe regulirovanie toplivoszhiganiia v sudovykh kotlakh. Moskva, Transport, 1965. 198 p. (MIRA 18:2)

ACC NR: AT6014879 (N) SOURCE CODE: UR/2752/65/000/077/0037/0039

AUTHOR: Sobolev, L. G. (Candidate of technical sciences); Petrov, V. P. 54 B+1

ORG: none

TITLE: Evaluation of the inertia of temperature transducers

SOURCE: Leningrad. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota. Trudy. no. 77, 1965. Avtomatizatsiya i vychislitel'naya tekhnika na morskom flote (Automation and computer engineering in the Merchant Marine), 37-39

TOPIC TAGS: temperature control, temperature transducer, temperature sensitive element, temperature measurement, servomechanism, servosystem

ABSTRACT: The theoretical possibility of calculating the dynamic error in temperature measurements is discussed and certain experimental data are presented. The problem arises during dynamic investigations of heat exchangers as objects of automatic control. In such studies, the experimentally established temperature of a definite medium as a function of time during steady perturbations (e. g., changes in the discharge of cooling or heating media) contain dynamic errors due to the inertia of temperature sensors and transducers. The authors formulate the problem as a problem in servosystem theory. The temperature transducer is characterized by the transfer

UDC: 621.398.694

Card 1/2

L 13019-66
ACC NR: AT6014879

function $D(p) = \frac{k}{Tp + 1}$,

where k is the coefficient of amplification, a dimensionless constant; T is a transducer constant (in sec) and p is a differential operator d/dt. The disturbance is assumed to be steady-state. The dynamics of temperature measurement are represented in terms of the Laplace-Carson function of the disturbance and the experimentally-determined curve of the transducer temperature. The unknown quantity T is determined by operator calculus (A. I. Lur'ye, *Operatsionnoye ischisleniye*, Moscow-Leningrad, Gostekhizdat, 1950). The quantity k is determined on the basis of data from static tests. Orig. art. has: 2 figures.

SUB CODE: 20,09/ SUBM DATE: none/ ORIG REF: 003

Card 2/2

L 02254-67
ACC NR: AT6008031

The use of these ratios makes it possible to extend the conclusions of a previous work (Trudy TsNIIMF, vyp. 46, 1962) in which a similar method was employed to study the dynamics of automatic control systems with aperiodic elements, to broader classes of such systems. Orig. art. has: 49 formulas.

SUB CODE: 09,12/ SUBM DATE: none/ ORIG REF: 006

pb

Card 2/2

SOB [illegible]

[illegible] of foreign classification societies for the automation of seagoing vessels. Sudostroenie no.7:41-45 Jl '65. (MIRA 18:3)

SCH[illegible], L. S.

"Meteorological Ships in the Atlantic," No 4, pp 85-86.
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3210, 3 Apr 1953

SOBOLEV, L.G.

Conference on problems of geophysics in the Lithuanian S.S.R.
Metero. i gidrol. no.2:55-56 F '53. (MLRA 8:9)

1. GUGMS pri Sovete Ministrov SSSR, Moskva.
(Lithuania--Geophysics--Congresses)

SOBOLEV, L.G.

Scientific conference of geophysicists in Vilnius. Metero.i gidrol. no.10:57 N-D '53. (MIRA 8:9)
(Vilnius--Geophysics--Congresses)

[illegible]

"Plen[illegible] [illegible] in the Presidium [illegible] [illegible] USSR," [illegible] [illegible]

The plenum [illegible] held in May 195[illegible] in Moscow. Among the most important tasks in physical ocean[illegible] [illegible] study of the circulation of sea waters, thermics and wind swells, and also the creation of methods of laboratory and [illegible]atory modeling. Participants [illegible] on the successes of recent years in the development of theoretical and empirical methods of oceanography, especially in the establishment of the dependences between wind fields over seas and sea swells and circulation. The carrying out of preliminary calculations of the underlying study of the elements governing the regime of seas was recommended for [illegible] theoretical investigations and observations in nature in the c[illegible] of the preparation of large-scale expeditionary investigations. The State Oceanographic Institute and the Institute of Oceanology, Academy of Sciences USSR, are charged in [illegible] with considering the [illegible] of the fishing industry, maritime transport, maritime [illegible] construction, and of other branches of the economy. Noted were the serious [illegible] in the technical equipment of oceanographic investigations and essential deficiencies in the training of cadres of oceanographers in comparison with the tasks facing oceanography. (RZhGeol, No [illegible], 1955) SO: Sum.No. [illegible], [illegible] Nov 55

Sobolev, L. G.

AID P - 3195

Subject : USSR/Meteorology

Card 1/1 Pub. 71-a - 22/23

Author : Sobolev, L. G.

Title : Preparing for the International Geophysical Year

Periodical : Met. i. gidr., 5, 68-69, S/O 1955

Abstract : Article reports on preparations made by a special committee organized by the Academy of Sciences, USSR, for the 3rd International Geophysical Year, under the chairmanship of Academician I. P. Bardin to be held in 1957-1958. The scientific institutes and societies invited to participate are listed.

Institution : None

Submitted : No date

Translation M-1184, 27 Jul 62

SOBOLEV, L.G.

3(5) PHASE I BOOK EXPLOITATION SOV/1637

Akademiya nauk SSSR. Kompleksnaya antarkticheskaya ekspeditsiya.

Opisaniye ekspeditsii na dizel'-elektrokhode "Ob', "1955-1956 gg. (Description of the Expedition Aboard the Diesel-electric Ship "Ob'" 1955-1956) Moscow, Izd-vo AN SSSR, 1958. 237 p. 2,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Sovet po antarkticheskim issledovaniyam. Chief Ed.: I. P. Bardin, Academician; Resp. Ed. for this vol.: V.G. Kort, Professor, Chief, 1st trip of the Marine Antarctic Expedition, USSR Academy of Sciences; Editorial Board: A.A. Afanas'yev (Chief, Main Administration of the Northern Sea Route, Sea Route, MMF),V.G. Bakayev (Minister of Sea Transport), V. F. Burkhanov (Deputy Chief, Main Administration of the Northern Sea Route), A.A. Zolotukhin (Chief, Main Administration of the

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Description of the Expedition (Cont.) SOV/1637

conducted in cooperation with the IGY program. A large part of the observations and preliminary findings cited are in the field of hydrology and hydrochemistry, marine geology, geophysics, hydrography, and hydrobiology. A roster of the members of the expedition together with their specialities is included. There are 72 figures, including maps. Bibliographic references accompany separate chapters.

TABLE OF CONTENTS:

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Description of the Expedition (Cont.) SOV/1637

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AVAILABLE: Library of Congress

MM/bmd
5-28-59

Card 9/9

COVERAGE: The present volume, the fifth in a series of seven, is a collection of articles (except for two) devoted specifically to the oceanographic, meteorological, and hydrochemical findings of the Second Soviet Marine Expedition conducted on the diesel ship "Ob'" (I. A. Man, Captain) during 1956-57. The first two articles outline the Expedition's organization and program, and provide a general account of its activities during the 223-day voyage, which covered more than 40,000 miles of the Atlantic, Antarctic, and Indian Oceans. The expedition was sponsored by the Arctic and Antarctic Scientific Research Institute of the Glavsevmorput' Ministerstva morskogo flota SSSR (Main Administration of the Northern Sea Route of the Ministry of the Merchant Marine of the USSR) as part of the International Geophysical Year program. Its purpose was to investigate 1) atmospheric processes in the Antarctic region and their effect on the earth's general circulation, 2) basic regularities in the distribution of waters in the southern oceanic zone, 3) exchange of the waters of the southern seas with the waters of the world ocean, 4) geological structure of the sea bottom in the Antarctic region, and 5) the plankton, benthos.

ichthyofauna, and microorganisms of the Antarctic waters. Observations of the magnetic field of the earth were also made. The expedition, headed by Professor Igor' Vladislavovich Maksimov, Doctor of Geographical Sciences and Professor at the Leningradskoye vysshoye inzhenernoye morskoye uchilishche imeni S. O. Makarova (Leningrad Higher Marine Engineering School imeni S. O. Makarov), consisted of the following 8 scientific task forces: aerometeorological (headed by Leonid Gennadiyevich Sobolev); hydrological (Kirill Vladimirovich Moroshkin); geological (Aleksandr Petrovich Lisitsyn); hydrochemical (Aleksey Nikolayevich Bogoyavlenskiy); hydrobiological (Viktor Aleksandrovich Arsen'yev); geophysical (Nikolay Panteleymonovich Grushinskiy); geographic (Gravrila Dmitriyevich Rikhter); and hydrographic (Yuriy Aleksandrovich Gordeyev). A complete list of the names and affiliations of the 65 scientific and administrative members of the Expedition is contained in the first article. The articles were written by members of the Institut okeanologii Akademii nauk SSSR (Institute of Oceanology, Academy of Sciences USSR), Gosudarstvennyy okeanograficheskiy institut Gidrometsluzhby SSSR (State Oceanographic Institute of the Hydro-

Card 3/6

meteorological Service of the USSR), Vsesoyuznyy nauchno-issledovatel'skiy institut rybnogo khozyaystva i okeanografii (All-Union Scientific Research Institute of Fisheries and Oceanography), and the Arctic and Antarctic Scientific Research Institute. There are no references.

TABLE OF CONTENTS:

Second Marine Expedition (Cont.) SOV/5463

Kutyurin, V.M. Determining the Content of Chloropayll in Sea Water and the Spectral Analysis of Phytoplankton Pigments 173

AVAILABLE: Library of Congress (G660.S58)

Card 6/6

JA/dwm/bc
11-1-61

SOBOLEV, L.G.

Studies of hydrometeorological conditions of the Vistula Lagoon.
Meteor. i gidrol. no.12:52 D '60. (MIRA 13:11)
(Vistula Lagoon--Hydrology--Research)

BOROVIKOV, A.M., kand. fiz.-mat. nauk; KHRGIAN, A.Kh., prof.; SOBOLEV, L.G., otv. red.; YASNOGORODSKAYA, M.M., red.; VLADIMIROV, O.G., tekhn. red.

[Abridged cloud atlas for hydrometeorological observations on ships] Sokrashchennyi atlas oblakov dlia sudovykh gidrometeorologicheskikh nabliudenii. Pod red. L.G.Soboleva. Leningrad, Gidrometeor. izd-vo, 1961. 52 p. (MIRA 15:2)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. (Clouds)

SOBOLEV, L.G.

Meteorological and hydrological observations on ships. Meteor. i gidrol. no.2:47-48 F '61. (MIRA 14:1)
(Meteorology, Maritime)

SOBOLEV, L.G.

Meteorological program of the international expedition for the study of the Indian Ocean. Meteor. i gidrol. no.1:53-54 Ja '64. (MIRA 17:3)

1. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

ACC NR: AP7005231 (A) SOURCE CODE: UR/0145/66/000/009/0097/0102

AUTHOR: Sobolev, L. M. (Candidate of technical sciences, Lecturer)

ORG: Kostroma Agricultural Institute (Kostromskoy sel'skokhozyaystvennyy institut)

TITLE: Theoretical principles of carburetion in a precombustion engine

SOURCE: IVUZ. Mashinostroyeniye, no. 9, 1966, 97-102

TOPIC TAGS: fuel mixing, internal combustion engine, engine fuel system, combustion chamber

ABSTRACT: The author considers the theoretical principles of carburetion based on classical assumptions of general and technical thermodynamics with regard to the composition of the fuel mixture at various stages assuming various conditions and structural parameters in a precombustion engine. Expressions are derived for calculating the resultant composition of the mixture in the precombustion chamber which account for the geometric degree of compression, the volume of the chamber and the working volume of the cylinder as well as the operating conditions of the engine--the actual degree of compression as a function of the ignition advance angle, the temperature of the mixture in the precombustion chamber and in the cylinders and the scavenging coefficient of the precombustion chamber. Curves are given showing the composition of the mixture in the precombustion chamber as a function of the composition of the primary mixture for various relative rates of air consumption. An increase in the relative

UDC: 621.43

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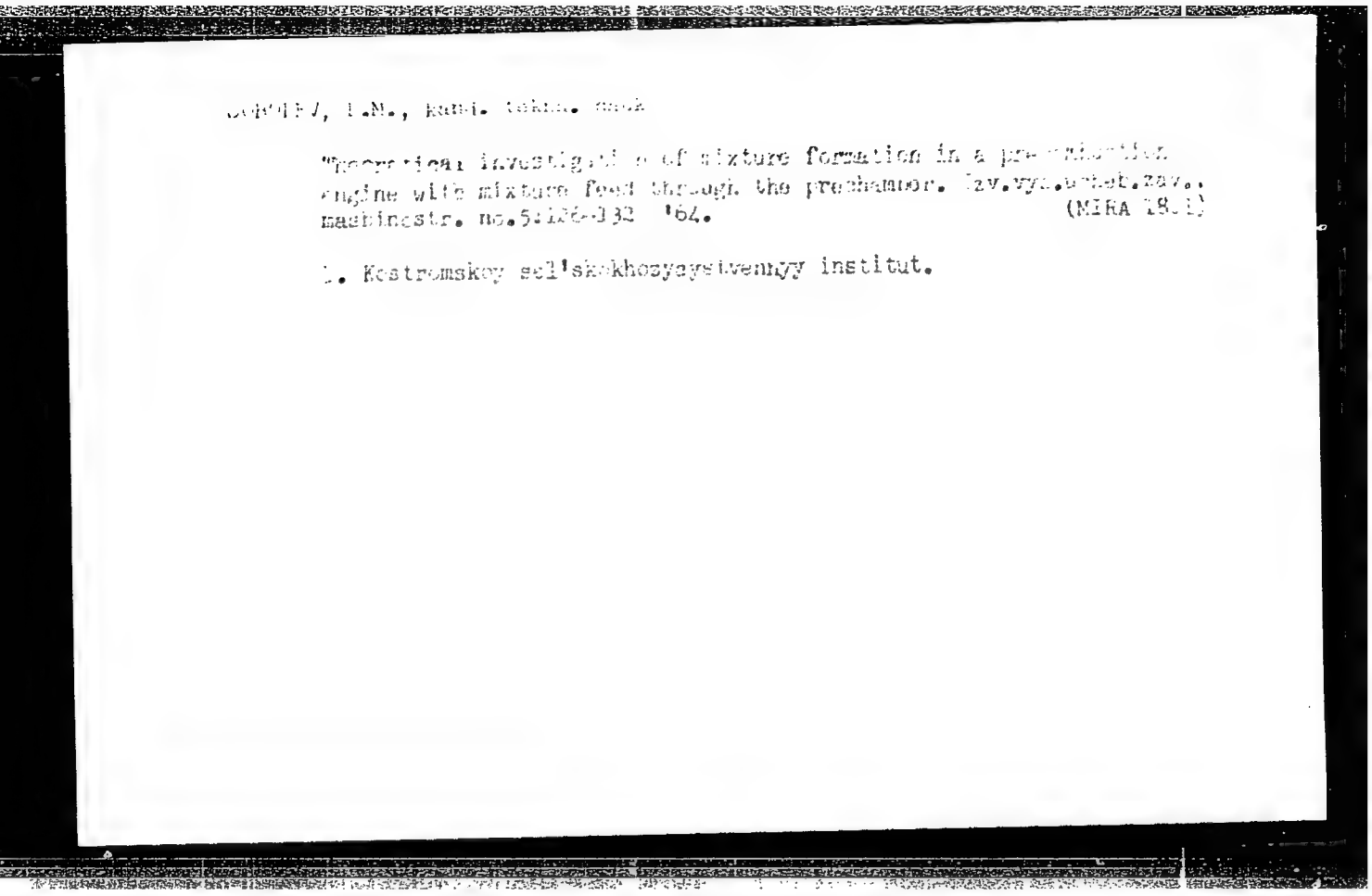
ACC NR: AP7005231

rate of air consumption while holding the compositions of the primary and precombustion mixtures constant reduces the concentration of air in the resultant mixture entering the precombustion chamber from the cylinder during compression in the case of a lean primary mixture thus enriching the resultant mixture or making it necessary to provide a leaner mixture in the precombustion chamber where the composition of the resultant mixture is to be held constant. Formulas are derived for the relationship between precombustion fuel consumption and other parameters, and also for the volume of the precombustion chamber which gives normal carburetion. Orig. art. has: 2 figures, 22 formulas.

SUB CODE: 21/ SUBM DATE: 10Aug65

Card 2/2



[illegible], I.N., kand. tekhn. nauk

"Theoretical investigation of mixture formation in a pre-chamber engine with mixture feed through the prechamber. Izv.vys.ucheb.zav., mashinostr. no.5:128-132 '64. (MIRA 18:1)

1. Kostromskoy sel'skokhozyaystvennyy institut.

NOBRODOV, D.M.; SOBOLEV, L.M.

Tool for pressure casting small nonferrous metal parts. Lit. proizv. no.5:10-11 My '55. (MLRA 8:6)
(Die casting) (Foundry machinery and supplies)

SOBOLEV, L. M., Cand Tech Sci (diss) -- "Investigation of the working process of a bottom-valve carburetor motor with jet ignition". Leningrad, 1959. 18 pp (Min Agric RSFSR, Leningrad Agric Inst, Engineering Faculty), 250 copies (KL, No 9, 1960, 126)

STRUNNIKOV, Nikolay Fedorovich; SOBOLEV, Leonid Nikolayevich; SOLOV'YEV, Yuriy Alekseyevich; BAGRANOVA, N., red.

[Tractors; a concise manual] Traktory; kratkii spravochnik. Kostroma, Kostromskoe knizhnoe izd-vo, 1963. 434 p. (MIRA 18:9)

SOBOLEV, L.N.

Mechanizing the removal of waste products. Lit. proizv. no.6:41 Je '63. (MIRA 16:7)

(Foundries—Equipment and supplies)
(Industrial wastes)

AVSYUK, G.A.; ARMAND, D.L.; VENDROV, S.L.; GELLER, S.Yu.; GERASIMOV, I.P.; GRIGOR'YEV, A.A.; GRICHUK, V.P.; DZERDZEYEVSKIY, B.L.; KAMANIN, L.G.; ISAKOV, Yu.A.; LEONT'YEV, N.F.; L'VOVICH, M.I.; MURZAYEV, E.M.; NEYSHTADT, M.I.; RIKHTER, G.D.; SOBOLEV, L.N.

On Academician Vladimir Nikolaevich Sukachev's 85th birthday.
Izv. AN SSSR. Ser. geog. no.4:3-4 Jl-Ag '65. (MIRA 18:8)

PA5/49T47

SOBOLEV, L. N.

Jul 48

USSR/Geophysics
Atmosphere - Illumination

"Rainbows in Winter," L. N. Sobolev, ½ p

"Priroda" No 7

Describes weather conditions which preceded the appearance of this rainbow observed from Tarasov station (Yaroslav Railroad) on 7 Jan 48.

5/49T47

OBOL Y, I. V.

"Pioneer Plants of Moscow," Priroda, No. 9, 1949.

SOKOLEV, L. V.

Botany-Tien Shan

Brief outline of the vegetation in the district of operations of the Tien Shan physical geographic station. Trudy Inst. geog. AN SSSR no. 49, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

SOBOLEV, L.N.

Results of observations of the effect of the snow cover on various phytohabitats in the forest-meadow belt of the northern Tien Shan. (MLRA 7:9)
Geog.sbor. 4:34-40 '54.
(Tien Shan--Phytogeography) (Phytogeography--Tien Shan) (Snow)

SOKOLEV, L.N.

Botanical activities of the North Kirghiz Expedition of the Institute of Geography of the Academy of Sciences of the U.S.S.R. at the Tien Shan high-altitude physical geographical station. Bot.zhur. 39 no.4: 632-634 Jl-Ag '54. (MLRA 7:10)
(Tien Shan--Botany--Field work) (Botany--Field work--Tien Shan)

Sobolev, L. N.

USSR/ Geography

Card 1/1 Pub. 45 - 5/14

Authors : Sobolev, L. N.

Title : Determination of complex characteristics of a convenient locality on the basis of territorial ecological signs

Periodical : Izv. AN SSSR. Ser. geog. 6, 36 - 42, Nov-Dec 1955

Abstract : Scientific methods are described for determining the characteristics of convenient (habitable) localities by the territorial ecological signs. Tables.

Institution : Acad. of Sc., USSR, Inst. of Geography

Submitted : .....

SOBOLEV, L.N.; SYROYECHKOVSKIY, Ye.Ye.

Conservation of natural resources of the country. Izv. AN SSSR. Ser. geog. no.6:142-143 N-D '56. (MIRA 10:1)
(Nutural resources)

SOBOLEV, L.N.

Modern organization of large scale territorial geobotanical studies, and methods for reorganizing it. Bot.zhur.41 no.1: 152-157 Ja '56. (MLRA 9:6)
(Phytogeography)

'TSYS', P.N.; KALESNIK, S.V.; SOKOLOV, N.N.; CHOCHIA, N.S.; PROTOPOPOV, A.P.; ZABELIN, I.M.; GVOZDETSKIY, N.A.; YEFREMOV, Yu.K.; KARA-MOSKO, A.S.; KOZLOV, I.V.: SOLNTSEV, N.A.; ISACHENKO, A.G.; ARMAND, D.L.; MIROSHNICHENKO, V.P.; PETROV, K.M.; KAZAKOVA, O.N.; MIKHAYLOV, N.I.; PARMUZIN, Yu.P.; GERENCHUK, K.I.; MIL'KOV, F.N.; TARASOV, F.V.; NIKOLAYEV, V.N.; SOBOLEV, L.N.; RYBIN, N.N.; DUMIN, B.Ya.; IGNAT'YEV, G.M.; MEL'KHEYEV, M.N.; SANEBLIDZE, M.S.; VASIL'YEVA, I.V.; PEREVALOV, V.A.; BASALIKAS, A.B.

Discussion at the conference on studying land forms. Nauk. zap. L'viv. un. 40:231-267 '57. (MIRA 11:6)
1.L'vovskiy gosudarstvennyy universitet (for TSys', Gerenchuk, Dumin). 2.Laboratoriya aerometodov AN SSSR, Leningrad (for Sokolov, Miroshnichenko, Petrov). 3.Institut geografii AN SSSR, Moskva (for Armand, Sobolev). 4.Gosudarstvennyy universitet, Voronezh (for Mil'kov, Tarasov). 5.Leningradskiy gosudarstvennyy universitet (for Chochia, Isachenko, Kazakova). 6.Komissiya okhrany prirody AN SSSR, Moskva (for Protopopov). 7.Gosudarstvennyy universitet, Chernovtsy (for Rybin). 8.Gosudarstvennyy universitet, Irkutsk (for Mel'kheyev). 9.Gosudarstvennyy pedagogicheskiy institut im. V.I. Lenina, Moskva (for Vasil'yeva). 10.Bol'shaya Sovetskaya Entsiklopediya (for Zabelin). 11.Gosudarstvennyy universitet, Tbilisi (for Saneblidze). 12.Moskovskiy gosudarstvennyy universitet (for Gvozdetskiy, Solntsev, Mikhaylov, Parmuzin, Nikolayev, Ignat'yev). 13.Torgovo-ekonomicheskiy institut, L'vov (for Perevalov). 14.Gosudarstvennyy institut im. Kapsukasa, Vil'nyus (for Basalikas). 15.Muzey zemlevedeniya Moskovskogo gosudarstvennogo universiteta (for Yefremov, Kozlov). 16.Srednyaya shkola No.13, Kiyev (for Kara-Mosko). (Physical geography)

SOBOLEV, L.N.

From the practice in teaching L.G. Ramenskii's projection method of determining vegetation density. Bot. zhur. 42 no.5:730-733 My '57. (MIRA 10:6)
(Botany--Study and teaching)
(Plants, Space arrangement of)

SIL'VESTROV, S.I.; SOBOLEV, L.N.

The First Congress of Pedologists of the U.S.S.R. Izv.AN SSSR Ser.geog. no.5:144-148 S-O '58. (MIRA 11:12)
(Soil research)

SOBOLEV, L.N.

Some problems in the qualitative evaluation of natural forage lands. Vop.geog. no.43:109-115 '58. (MIRA 12:5)
(Pastures and meadows)

SOBOLEV, L.N.

"Ecological rating of forage lands based on vegetation" by L.G. Ramenskii and others. Reviewed by L.N. Sobolev. Vop. geog. no.43:206-207 '58. (MIRA 12:5)
(Pastures and meadows)
(Botany--Ecology)
(Ramenskii, L.G.)

SOBOLEV, L.N.

Vegetation in the forest-meadow-steppe belt of the central Terksey Ala-Tau. Trudy Inst. geog. 75:74-143 '59. (MIRA 13:12)
(Terksey Ala-Tau--Vegetation and climate)

SCHCLEV, LEONID

PHASE I BOOK EXPLOITATION SOV/5174

Pravda, Moscow.

Vtoroy Sovetskiy kosmicheskiy korabl': materialy, opublikovannyye v gazete "Pravda" (The Second Soviet Cosmic Ship; Materials Published in the Newspaper "Pravda") Moscow, 1960. 198 p. 50,000 copies printed.

Resp. for this Publication: V. Reut and V. Smirnov; Tech. Ed.: V. Yagodkina.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book is a compilation of articles which appeared in the newspaper Pravda after the launching, orbiting, and recovery of the capsule of the Soviet 4,600 kg spaceship on August 19, 1960. The articles give some details of scientific research undertaken in this flight in the fields of biology, cytology, genetics, cosmic radiation, solar radiation, ultraviolet radiation, and radiation levels. A description and three photos of the capsule are given. No personalities are mentioned. There are no references.

14

SOBOLEV, Leonid Nikolayevich; PEL'T, N.N., kand.sel'skokhoz.nauk, otv.red.; LIKHACHEV, A.N., red.izd-va; DOROKHINA, I.I., tekhn.red.

[Forage resources of Kazakhstan] Kormovye resursy Kazakhstana. Moskva, Izd-vo Akad.nauk SSSR, 1960. 278 p. (MIRA 14:2)

(Kazakhstan--Pastures and meadows)

SOBOLEV, L.N.

Vegetation in alpine regions of the Terskei Ala-Tau. Probl. bot. 5:225-227 '60. (MIRA 13:10)

1. Institut geografii AN SSSR, Moskva.
(Terskei Ala-Tau--Alpine flora)

GOLOVKIN, D.A.; SIL'VESTROV, S.I.; SOBOLEV, L.N.

International Conferende on Methods of Land Utilization organized by Polish geographers. Izv. AN SSSR. Ser. geog. no.6:118-121 N-D '60. (MIRA 13:10)

1. Institut geografii AN SSSR.
(Land--Congresses)

VORONOV, A.G.; SOBOLEV, L.N.

The substance and objectives of biogeography. Vop.geog. no.48:5-13 '60. (MIRA 13:7)
(Geographical distribution of animals and plants)

SOBOLEV, L. N.

Classification of natural forage lands. Vop.geog. no.48: 186-193 '60. (MIRA 13:7)
(Pastures and meadows)

SOBOLEV, L.N.; SYROYECHKOVSKIY, Ye.Ye.

Activities of the Biogeographical Commission of the Moscow Branch of the Geographical Society of the U.S.S.R. Vop. geog. no.48:303-304 '60. (MIRA 13:7)
(Ecology)

VORONOV, A.G.; SOBOLEV, L.N.

Conference on problems of vegetation mapping. Izv.AN SSSR.Ser.geog, no.3:146-148 My-Je '61. (MIRA 14:5)
(Phytogeography)

GAL'TSOV, A.P.; GERASIMOV, I.P.; ZANIN, G.V.; SOBOLEV, L.N.

Scheme of the general program for station field research on the biogeophysics of natural landforms. Izv. AN SSSR. Ser. geog. no.5:95-99 S-O '61. (MIRA 14:9)

1. Institut geografii AN SSSR.
(Physical geography--Research)

SOBOLEV, L.N.

Development of an ecologic system for the steppes of the southern Urals. Trudy Inst. biol. UF AN SSSR no.27:97-104 '61. (MIRA 17:2)

GERASIMOV, I.P.; Prinimali uchastiye: ARMAND, D.L., nauchnyy sotrudnik; BUDAGOVSKIY, A.I., nauchnyy sotrudnik; L'VOVICH, M.I., nauchnyy sotrudnik; SIL'VESTROV, S.I., nauchnyy sotrudnik; SOBOLEV, L.N., nauchnyy sotrudnik

Reduce and bring to a minimum the dependence of our agriculture on natural elements. Izv. AN SSSR. Ser. geog. no.5:43-51 S-O '62. (MIRA 15:10)

1. Institut geografii AN SSSR.
(Agriculture) (Geographical research)

SOBOLEV, L.N.

Coordinating conference on comprehensive biogeocenotic research conducted in the Central Black Earth Reservation. Izv. AN SSSR. Ser. geog. no.5:196-198 S-O '62. (MIRA 15:10)
(Kursk Province--Botany--Ecology)

SOBOLEV, L.N.

Alpine vegetation in the central part of the Terskei Ala-Tau.
Trudy Inst.geog. 81:73-111 '62. (MIRA 16:2)
(Terskei Ala-Tau--Vegetation and climate)

SOBOLEV, L.N.

Deserts and semideserts in the western part of the Issyk-Kul' depression. Trudy Inst.geog. 81:112-134 '62. (MIRA 16:2)
(Issyk-Kul' region—Desert flora)

[illegible] EV, [illegible]N.

Characteristics of the distribution of vegetation and soils in the parkish spruce forests of the Tien Shan. Biul. MOIP. Otd. biol. 68 no.3 82-97 My-Je '63. (MIRA 17:8)

SOBOLEV, L.N.

Automatic control of the shaft level of a cupola furnace.
Ratsionalizatsiia 14 no.8:19 '64.

SOBOLEV, L.N.; KARMYSHEVA, N. Kh.; UTEKHIN, V.D.

Ecological system of the soil and vegetation of the Aksu-Dzhabagly Preserve. Trudy Inst. bot. AN Kazakh. SSR 18: 41-54 '64 (MIRA 18:2)

SOBOLEV, L.N., inzh.; KOLMYCHEK, I.F., inzh.

Unit for automatic load distribution on molds. Mashinostroenie no.3:31-32 My-Je '65. (MIRA 18:6)

SOBOLEV, L.N.

An interuniversity conference on the geobotanical regionalization of the U.S.S.R. Izv. AN SSSR. Ser. geog. no.3:145-[illegible] 165. (MIRA 18:6)

SOBOLEV, L.N.

Characteristics of the distribution of plants and soils in dense spruce forests of the Tien Shan. Biul. MOIP. Otd. biol. 70 no.3:61-70 My-Je '65. (MIRA 18:10)

SOBOLEV, L.N., inzh.; SOSAYEV, V.N., inzh.

Conveyer for the manufacture of low-melting patterns. Lit. proizv. no.9:39 S '65. (MIRA 18:10)

24(3)

Author: D'yakov, G.P., Candidate of Physical-Mathematical Sciences

SOV/55-58-2-34/35

TITLE: Survey of Papers Read by Scientists of Moscow University at the All Union Congress on the Physics of Magnetic Materials (Obzor dokladov uchenykh Moskovskogo universiteta na vsesoyuznom soveshchanii po fizike magnitnykh materialov)

PERIODICAL: Vestnik Moskovskogo Universiteta.Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1958, Nr 2, pp [illegible] (USSR)

ABSTRACT: From December 6 - 11,1957 there took place the fourth Union Congress on physics of magnetic materials in Leningrad. (The first two meetings took place 1946 and 1951 in Sverdlovsk, the third meeting 1956 in Moscow). The congress was organized by : Academy of Sciences of the USSR, Department of Physical-Mathematical Sciences, Scientific Council on Fundamental Problems of Magnetism, Institute for Semiconductors of the Academy of Sciences, USSR and Committee for Magnetism. There were more than 300 participators. 59 lectures were given, among them the following lectures of the representatives of the Moscow State University :

1. Professor R.V. Telesnin, Ye.F. Kuritsyna, Lecturer "On the Velocity of Magnetic Reversal of the Ferromagnetics".
2. Professor R.V. Telesnin, Ye.T. Karshagina, Assistant "On Magnetic Viscosity of Ferrites".
3. Professor R.V. Telesnin [illegible] Shishkov, Aspirant "Effect of Magnetic Viscosity on the Frequency Characteristics of Ferrites".
4. M.V. Degtyar, Lecturer "Variations of Structure and Anti-ferromagnetic Properties of Ni_3Fe".
5. M.A. Grabovskiy, Lecturer, S.Yu. Brodskaya, Junior Scientific Assistant "Magnetic Properties of Anisotropic Stones".
6. G.P. D'yakov, Lecturer "Magnetostriction Properties of Binary Alloys".
7. Professor Ye.I. Kondorskiy, L.V. Sobolev, Assistant "Electric Properties of Ni-Zn-Ferrites".
8. N.Z. Miryasov, Senior Scientific Assistant, A.P. Parsunov, Aspirant "Magnetic Properties and Structure of Manganese - Boron - Alloys".
9. N.A. Smol'kov, Senior Scientific Assistant, B.P. Belov "Some Properties of Ferrites".
10. N.A. Smol'kov, Senior Scientific Assistant, Y.[illegible], Lecturer "Properties of $Ni\,Fe_2O_4$ - $Mg\,Fe_2O_4$".
11. N.A. Smol'kov and Ye.[illegible], Engineer "Properties of Ferrites in the High-Frequency Range".
12. Professor K.P. Belov, K.M. [illegible], Lecturer, T.[illegible] Yelaina, Lecturer, and N.A. Zaytseva, Junior Scientific Assistant "Ferrites [illegible] Compensation Point".
13. K.P. Belov, Ye.[illegible], Assistant "Electric and Galvanomagnetic Properties of the Manganese Ferrites".
14. T.A. Timofeyeva, Junior Scientific Assistant, A.V. Zalesskiy "Production of Monocrystals of Ferrites".
15. Professor K.P. Belov, A.V. [illegible], Junior Scientific Assistant "On Galvanomagnetic Properties of Ferromagnetic Alloys Near the Absolute Zero of Temperature".

The participators of the meeting visited a laboratory of the Institute of [illegible] of the Academy of Sciences of the USSR (Professor [illegible]).
The meeting was [illegible] by Professor [illegible], Corresponding Member, Academy of Sciences, USSR with the [illegible] to the following [illegible] Congress planned for 1959.
1. Magnetic Resonance and [illegible] magnetic Effects in Kazan'.
2. Ferromagnetic [illegible] Ferrites [illegible].
3. [illegible] Structure of the Ferromagnetics and [illegible] Effects [illegible].

24(3)
AUTHOR: Sobolev, L.V. SOV/55-59-1-14/28

TITLE: Volt-Ampere Characteristics and the Temperature Dependence of the Conductivity of Nickel-Zinc Ferrites

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1959, Nr 1, pp 117-120 (USSR)

ABSTRACT: The author studied volt-ampere-characteristics of $Ni\ O_{0.25} : Zn\ O_{0.75} : Fe_2O_3$ and $Ni\ O_{0.75} : Zn\ O_{0.25} : Fe_2O_3$ for temperatures -78°, 0°, +20° C. The form of the characteristics deviates from that being usual for semiconductors. The Ohm's law is valid only for very weak currents. The temperature dependence of the conductivity was determined with the aid of the bridge method. The curves $\ln\sigma = f(1/T)$ show a series of cracks (discontinuous derivative).
The author thanks Professor Ye.I.Kondorskiy for discussions.
There are 4 references, 1 of which is Soviet, 1 American, 1 English, and 1 German.

ASSOCIATION: Kafedra magnetizma (Chair of Magnetism)
SUBMITTED: October 9, 1958

Card 1/1

SOBOLEV, L.V.

Temperature dependence of complex dielectric permittivity spectra of polycrystalline nickel zinc ferrates. Vest Mosk. un. Ser. mat. mekh., astron., fiz., khim. 14 no.2:107-111 '59 (MIRA 13:3)

1. Kafedra magnetizma Moskovskogo gosuniversiteta.
(Nickel zinc ferrates--Electric properties)

SOBOLEV, Leonid Vasil'yevich; GOL'DENBERG, G.Ye., red.; YERMAKOV, M.S., tekhn.red.

[Short handbook on physics for the students entering colleges] Kratkoe posobie po fizike dlia postupaiushchikh v vuzy. Moskva, Izd-vo Mosk.univ., 1960. 287 p. (MIRA 14:2)

(Physics)

SOBOLEV, Leonid Vasil'yevich; GOL'DENBERG, G.S., red.; YEGNAKOV, M.S., tekhn. red.

[Textbook on physics for students entering the institutions of higher learning] Posobie po fizike dlia postupaiushchikh v vuzy. Moskva, Izd-vo Mosk. univ., 1964. 359 p. (MIRA 17:2)

SOBOLEV, M., arkhitektor.

Planning machine-tractor station layouts. Sel'.stroi.8 no.6:12-13 N-D '53.
(MLRA 6:11)
(Machine-tractor stations)

SOBOLEV, M.

Some problems in the development of television. Radio no.10: 25-26 O'55. (MLRA 9:1)

1. Glavnyy inzhener Glavnogo upravleniya Ministerstva radiotekhnicheskoy promyshlennosti.
(Television)

PA 20/49T103

SOBOLEV, M. A.

USSR/Radio Transformers, Radio Frequency Choke Coils — Sep/Oct 48

"New Methods for Designing Powerful Modulating Transformer," S. V. Person, Cand Tech Sci, M. A. Sobolev, N. I. Eydlin, Engineers, 22 pp

"Radiotekh" Vol III, No 5

Briefly reviews existing models of modulation transformers and design requirements. Gives method of designing modulation transformer and choke coil in circuit without magnetization current, and method of designing transformer in circuit with magneti-

20/49T103

USSR/Radio (Contd) — Sep/Oct 48

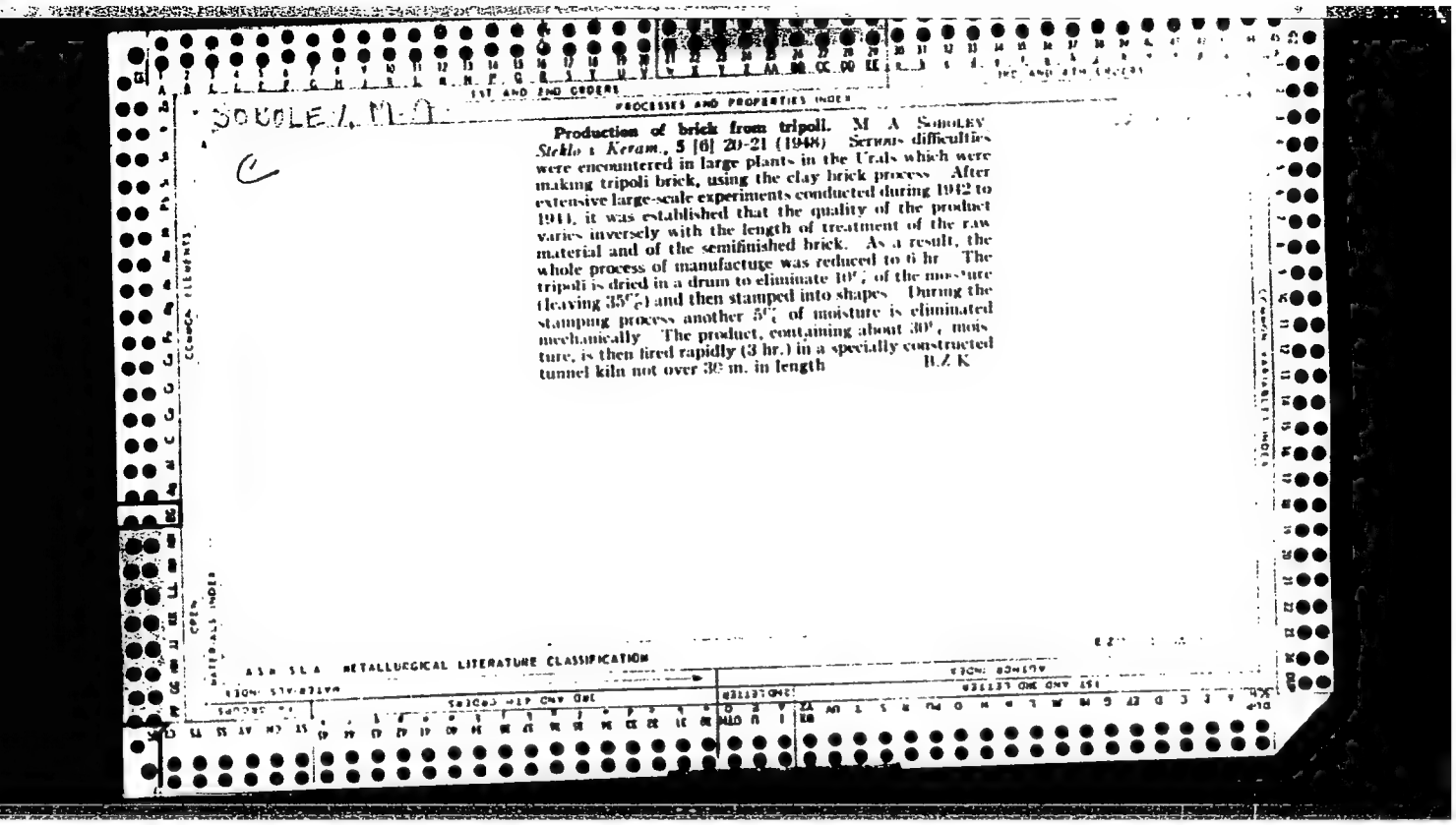
zation current. Compares the two circuits. Submitted 10 Jun 48.

20/49T103

SOBOLEV, M. A.

Sobolev, M. A. -- "Vasaular Unconditioned Reflexes in Focal Infections of the Brain." Khar'kov Medical Inst. Khar'kov, 1956. (Disseration For the Degree of Candidate in Medical Sciences).

So: Knizhnaya Letopis', No. 11, 1956, pp 103-114



PROCESSES AND PROPERTIES INDEX

Production of brick from tripoli. M A Sokolev *Steklo i Keram.*, **5** [6] 20-21 (1948) Serious difficulties were encountered in large plants in the Urals which were making tripoli brick, using the clay brick process After extensive large-scale experiments conducted during 1942 to 1944, it was established that the quality of the product varies inversely with the length of treatment of the raw material and of the semifinished brick. As a result, the whole process of manufacture was reduced to 6 hr The tripoli is dried in a drum to eliminate 10% of the moisture (leaving 35%) and then stamped into shapes During the stamping process another 5% of moisture is eliminated mechanically The product, containing about 30% moisture, is then fired rapidly (3 hr.) in a specially constructed tunnel kiln not over 30 m. in length B Z K

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

SOVOLEV, M. A.

26420 Kol'tsevaya kirpicheob-zhigatel'naya pech' s mekhanizirovannoy zagruzkoy I vygruzkoy kirlicha. Sbornik rabot po mest. Stroit. Materialam (upr. prom-sti stroit. Materialov i stroit. Detaley pri mosgorispolkome. Nauch-issled. I zksperim. Stantsiya), vyp. 2-3, 1949, s. 27-30.

SO: LETOPIS' NO. 35, 1949

SOKOLOV, I. A.

SOKOLOV, I. A. "A ring brick kiln with mechanized loading and unloading of bricks", Gor. Khoz-vo Moskvy, 1949, No. 4, p. 26-27.

SO: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).

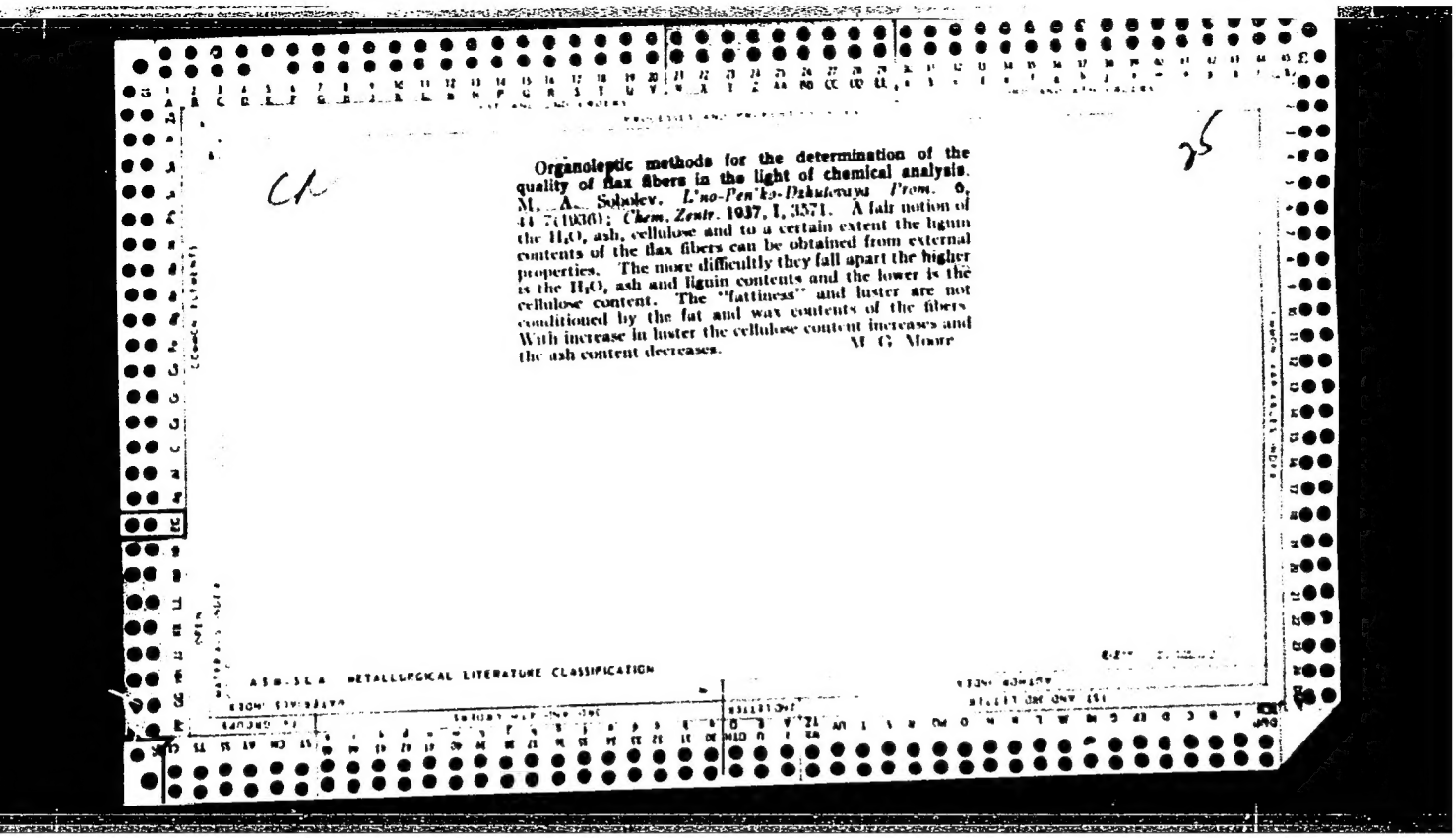
SOBOLEV, M.A., inzhener

Rotary tunnel kiln for burning bricks. Gor. khoz. Mosk. 29 no.6:33-35 Je '55. (MLRA 8:8)
(Kilns, Rotary)

SOBOLEV, M.A., inzh.; ROGOVOY, M.I., inzh.; GILENSON, P.G., tekhn. red.

[Calendar and reference book for the workers in brick factories] Kalendar'-spravochnik rabotnika kirpichnogo zavoda. Moskva, Gos. izd-vo lit-ry po stroit. materialam, 1958. 254 p. (MIRA 11:9)

1. Nauchno-tekhnicheskoye obshchestvo promyshlennosti stroitel'nykh materialov. Moskovskoye oblastnoye pravleniye.
(Brickmaking)



Organoleptic methods for the determination of the quality of flax fibers in the light of chemical analysis. M. A. Sobolev. *L'no-Pen'ko-Dakutsnaya Prom.* **6**, 44-7(1936); *Chem. Zentr.* **1937**, I, 3571. A fair notion of the H_2O, ash, cellulose and to a certain extent the lignin contents of the flax fibers can be obtained from external properties. The more difficultly they fall apart the higher is the H_2O, ash and liguin contents and the lower is the cellulose content. The "fattiness" and luster are not conditioned by the fat and wax contents of the fibers. With increase in luster the cellulose content increases and the ash content decreases. M. G. Moore